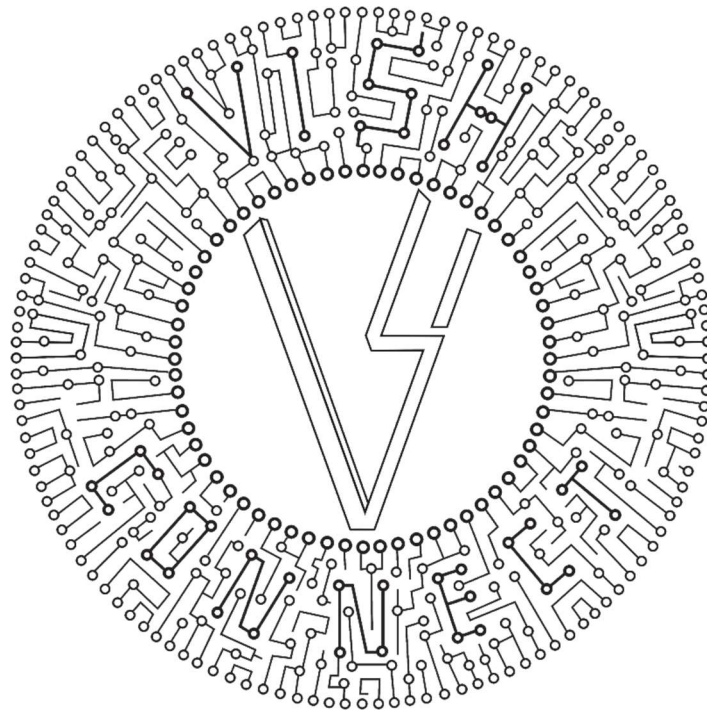




VISHCONNECT SOLUTIONS

Simplify Work Through Automation

MS PowerBI Workshop



Session 1: Introduction to Power BI & Data Connectivity

Duration: 1.5–2 Hours

- **Overview of Power BI and its components (Power BI Desktop, Service, Mobile)**
 - **Installing and setting up Power BI**
 - **Connecting to different data sources (Excel, databases, web data, APIs)**
 - **Understanding data refresh and import vs. direct query**
- Practical Activities:**
- **Connect Power BI to an Excel and SQL database**
 - **Import and explore sample datasets**
-

Session 2: Data Transformation with Power Query

Duration: 2 Hours

- **Introduction to Power Query Editor**
 - **Cleaning and transforming raw data**
 - **Merging and appending queries**
 - **Creating calculated columns and custom columns**
- Practical Activities:**
- **Use Power Query to clean and shape data**
 - **Merge multiple datasets into a single table**
-

Session 3: Data Modeling & Relationships

Duration: 2 Hours

- **Understanding data modeling principles**
 - **Creating and managing relationships between tables**
 - **Using primary and foreign keys**
 - **Introduction to DAX (Data Analysis Expressions) for calculated columns and measures**
- Practical Activities:**
- **Build relationships between multiple tables**
 - **Write simple DAX formulas for calculations**
-

Session 4: Data Visualization & Interactive Reports

Duration: 2 Hours

- **Best practices for creating effective dashboards**
 - **Adding visuals: charts, tables, KPIs, and maps**
 - **Formatting and customizing reports**
 - **Using filters, slicers, and drill-through for interactive analysis**
- Practical Activities:**
- **Design an interactive dashboard using real-world data**
 - **Use slicers and filters to enhance interactivity**
-

Session 5: Advanced DAX & Business Intelligence

Duration: 2 Hours

- **Understanding measures vs. calculated columns**
 - **Writing advanced DAX formulas (SUMX, CALCULATE, RANKX)**
 - **Time intelligence functions for trend analysis**
 - **Optimizing DAX performance**
- Practical Activities:**
- **Create time-based calculations (YTD, MTD, QoQ)**
 - **Implement ranking and conditional calculations**
-

Session 6: Publishing, Sharing & Power BI Service

Duration: 2 Hours

- **Publishing reports to Power BI Service**
 - **Configuring data refresh and scheduled updates**
 - **Sharing and collaborating on dashboards**
 - **Row-level security (RLS) for data access control**
- Practical Activities:**
- **Publish a Power BI report and schedule a data refresh**
 - **Implement row-level security for different users**
-

Session 7: Final Project & Best Practices

Duration: 2 Hours

- **Review of Power BI best practices**
 - **Performance optimization and troubleshooting**
 - **Final project: Creating a real-world interactive Power BI dashboard**
 - **Q&A and advanced topics discussion**
- Practical Activities:**
- **Build and present a complete Power BI solution**

PowerBI Workshop

Contact Information:

For any questions or further information, please contact us at:

Email: info@vishconnect.com

Phone: +1 437 452 9029